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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/528,561	10/03/2005	Rikizo Hatakeyama	8075-1007	6292
466 YOUNG & TH	7590 01/26/200 OMPSON	9	EXAM	INER
209 Madison St Suite 500	reet	HORNING, JOEL G		
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			1792	
			MAIL DATE	DELIVERY MODE
			01/26/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Occurrence	10/528,561	HATAKEYAMA ET AL.				
Office Action Summary	Examiner	Art Unit				
	JOEL G. HORNING	1792				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	;			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	J. nely filed the mailing date of this communi D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
	'_ ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits i						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) <u>1-19</u> are subject to restriction and/or e	lection requirement.					
Application Papers						
9) The specification is objected to by the Examiner						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Exa						
Priority under 35 U.S.C. § 119			· - ·			
<u> </u>	muianitus un dan 25 H.C.C. S. 440(a)	(d) on (f)				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(a) or (i).				
1.☐ Certified copies of the priority documents	s have been received					
		on No				
	• •		•			
 Copies of the certified copies of the prior application from the International Bureau 	•	u iii tiiis Nationai Stage	5			
* See the attached detailed Office action for a list of		d				
See the attached detailed Office action for a list of	or the certified copies not receive	u.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal Pa					
Paper No(s)/Mail Date	6) Other:	• •				

DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-7, drawn to a method for producing endohedral fullerenes.

Group II, claim(s) 8-19, drawn to a device for producing endohedral fullerenes.

The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the technical feature these groups share in common is a device for producing endohedral fullerenes, with a hot plate that can have doping ions directed at it, a way to introduce fullerenes into a plasma flow and a deposition plate downstream of the plasma area with concentric plate components. However, Hirata et al (Plasma sources sci technology Vol 5 No 2, pp 288, as supplied by applicant) teaches such an apparatus (Figure 1 and Experimental apparatus and methods section) with the exception that instead of using "concentric" components for the deposition plate, the experiment teaches using "radially aligned" components share a

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common center, thus they are concentric. As a result the common technical feature shared by the groups is not a special technical feature.

A telephone call was made to Benoit Castel to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOEL G. HORNING whose telephone number is (571) 270-5357. The examiner can normally be reached on M-F 9-5pm with alternating Fridays off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael B. Cleveland can be reached on (571)272-1418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. G. H./ Examiner, Art Unit 1792

/Michael Cleveland/ Supervisory Patent Examiner, Art Unit 1792